

AGENDA

LOCAL ROAD ADVISORY BOARD

Meeting No. 2017-02 March 27, 2017 - 6:30 P.M. City Hall Council Chambers, 120 Malabar Road SE

CALL TO ORDER:

ROLL CALL:

ADOPTION OF MINUTES:

1. Meeting No. 2017-01; February 27, 2017.

PUBLIC COMMENTS:

BUSINESS:

- 1. General Discussion: By Don Jordan
- 2. Pavement Condition Index Review- By Troy Davidson
- 3. Geofabric for Pavement Preservation- Presentation by TenCate

ADJOURNMENT:

If an individual decides to appeal any decision made by the Local Road Advisory Board with respect to any matter considered at this meeting, a record of the proceedings will be required and the individual will need to ensure that a verbatim transcript of the proceedings is made, which record includes the testimony and evidence upon which the appeal is based (FS 286.0105). Such person must provide a method for recording the proceedings verbatim.

In accordance with the Americans with Disabilities Act, persons needing special accommodations for this meeting shall, at least 48 hours prior to the meeting, contact The City of Palm Bay Public Works, 321-953-8996, or Florida Relay System at 711.

CITY OF PALM BAY, FLORIDA

LOCAL ROAD ADVISORY BOARD Meeting No. 2017-01

The Meeting was held Monday, the 27th day of February 2017, in the City Hall Council Chambers, 120 Malabar Road, SE, Palm Bay, Florida.

This meeting was properly noticed pursuant to law; the minutes are on file in the Public Works Department, 1050 Malabar Road, SW, Palm Bay, Florida. The minutes are not a verbatim transcript but a brief summary of the discussions and actions taken at the meeting.

CALL TO ORDER:

The meeting was called to order by Chairperson Weinberg at 6:35 P.M.

ROLL CALL:

CHAIRPERSON: Philip Weinberg Present Don Jordan VICE CHAIRPERSON: Present MEMBER: Hiram Grandoit Absent Jeremy Reiderman Present MEMBER: MEMBER: Dan Fisher Present Angelina Iglesias Present MEMBER:

MEMBER: Sara Moallem-Wood Absent- Called out sick

ALSO PRESENT:

Jarvis Middleton, Director of Public Works Troy Davidson, Engineering Division Manager Mary Facey, Recorder.

ADOPTION OF MINUTES:

1. Meeting No. 2016-02; April 4, 2016.

Motion made by Mrs. Iglesias, seconded by Mr. Jordan, to adopt the minutes of Meeting No. 2016-02. Motion carried unanimously.

PUBLIC COMMENTS:

Mr. Ron Lockwood, 458 Reading St. SE- Mr. Lockwood stated that he represented the SE area where he lived, as others did not attend these meetings. The roads were not getting better. He hoped that the new Special Assessment would lead us in a new direction. He stated that the road list suggested what order the roads would be worked

City of Palm Bay, Florida Local Road Advisory Board Meeting No. 2017-01 February 27, 2017 Page 2 of 3

on, and that it did not make sense, as some roads would be better done together. For example, Cogan North and Cogan South were separated on the list, and maybe they should be done together.

BUSINESS:

1. Welcome & Introduction of New Board Members – Mr. Weinberg

Mr. Jeremy Reiderman and Mr. Dan Fisher were introduced. The remainder of the board introduced themselves.

2. Introduction of Public Works Staff – PW Staff

Mr. Troy Davidson introduced himself as the Engineering Manager for Public Works. Mr. Jarvis Middleton introduced himself as Director of Public Works.

3. Review of Bylaws – Mr. Weinberg

A copy of the bylaws for The Local Road Advisory Board was submitted to each member in the Agenda Packet, prior to this meeting.

Mr. Weinberg commented on the term limits for his position. Mr. Weinberg's term as Chairperson expired in February 2017. Mr. Jordan would assume the role of Chairperson. The board would elect a new Vice Chairperson.

4. Comments – Mr. Weinberg

Mr. Weinberg discussed the need for each member to make the commitment to attend and participate on this board, as there had been issues in the past due to lack of attendance, and not meeting the Quorum rules. He asked, that if a member was unable to meet the needs of the Board, they should resign.

5. Comments – Mr. Jordan

Mr. Jordan has accepted the task, this is the first time he has done something like this, and may need some guidance from Staff in protocol. He commented that every person could make a difference. Mr. Reiderman had done some research on roads using Fiber, and that would assist the Board with having more resources to review. Mr. Jordan shared the Chamber of Commerce Map of Palm Bay. Mr. Jordan asked if additional copies could be provided to each of the Board members. Mrs. Facey would contact the Chamber to acquire the maps.

6. Election of new Vice Chairperson – Mr. Jordan

Mr. Jordan asked if there were any nominations for Vice Chair. Mrs. Iglesias asked if Mr. Weinberg could assume that role. Mr. Weinberg was an available candidate for Vice Chairperson.

City of Palm Bay, Florida Local Road Advisory Board Meeting No. 2017-01 February 27, 2017 Page 3 of 3

Nomination made by Mrs. Iglesisas, seconded by Mr. Fisher, to appoint Mr. Weinberg as the Vice Chairperson. Motion carried unanimously.

7. FY16 Road Program recap – PW Staff

Mr. Davidson provided an update on the Road Program, discussing Rejuvenation. Mrs. Iglesias asked how much notice would be given to the citizens when the rejuvenation process was in their area. Mr. Davidson responded approximately 3-4 days. Mr. Reiderman commented on research he did regarding Fabric for Reclamation processes. Mr. Middleton said that Fabric was still a new process, but had been used at other locations he had worked with in the past. There was no data supporting its effectiveness either way.

8. FY17 Road Program discussion – PW Staff

Mr. Reiderman would provide further information on Fabric to the board. He would also inquire with the company, to see if they would come and give the board an overview of the product and process.

R.J. Conlan was discussed There was potential funding from the Bayfront Community Redevelopment Agency to assist in the build of an Urban Center for this tech corridor, utilizing some Public Works seed money.

The Next Local Road Advisory Board meeting would be held on March 27, 2017, at 6:30 pm, City Hall Council Chambers.

There being no further business, the meeting adjourned at 8:00 pm.

ATTEST:	Don Jordan, Chairperson	
Mary Facey, Recorder		



RSi-Series

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Pavement Base Reinforcement Subgrade Stabilization RS580*i* RS380*i* RS280*i*



Superior integration*.

With the new Mirafi® RS*i*-Series, it's like comparing apples to oranges for Roadway Reinforcement.

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You asked for the impossible...and we responded.



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As the leader in geosynthetic solutions, TenCate



MiraSpec Design Solutions Software provides cost savings and "green" savings by incorporating a geosynthetic.

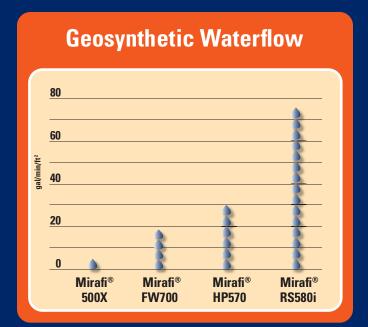


MiraSpec Design Solutions Software is easy to use and is available at no cost at www.Mirafi.com

Geosynthetics began the extensive research and design process of looking for the "perfect" geotextile that could move more water while concurrently retaining more soil within a roadway system. This product would also need to hold more force with less overall system movement in order to improve the base strength and support heavier loads; thus, resulting in longer life, less maintenance and costs, and better performance.

The solution we developed... Mirafi® RS *i*.

We have proven that a geotextile can solve a complex roadway problem, where once upon a time, the only solution



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...Integration of a superior multi-layered construction of woven fibers of various dimensions specifically positioned relative to adjoining fibers to create three times the water flow AND an increase in AOS sieve size.

Because Mirafi® RS*i*-Series geosynthetics have higher tensile modulus properties than comparable stabilization products on the market today, it is perfect for base course reinforcement and subgrade stabilization in roads,



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Modulus at 2% Strain Cross-Machine Direction 100,000 80,000 60,000 40,000 20,000 Mirafi® Mirafi[®] biaxial Mirafi® 500X **HP570 RS580i** geogrid

railways, runways and haul roads; and for stabilization of embankments on soft foundations. It also performs well for liner support, voids bridging, hazardous pond closures and other environmental purposes. Mirafi® RSi - Series geosynthetics are available in a variety of roll sizes to fit your specific project needs and requirements.

Because no one understands geosynthetics better than TenCate Geosynthetics...our materials make a difference.

Integration refers to the overall set of described characteristics based on a review of technical specifications for comparable products published by their respective manufacturers. Individual characteristics of these products vary and may meet, exceed, and fall below one or more of the above described individual characteristics.



Advantages

Go to www.mirafi.com for product demonstrations video.

Product Identification





Geogrids vs. Mirafi® RS580i







Strength at Every Angle





Go with the Flow





Walk the Walk





RS380 i & RS580 i Patent # 8.333.2200 and 8598.054. RS280 i Patent Pending.

SEPARATION • PRODUCT IDENTIFICATION

TenCate develops and produces materials that increase performance, Our goal is to contribute significantly to progress in the industries in which we work.

The information contained herein is to the best of our knowledge accurate, but since the circumstances and conditions in which it may be used are beyond our control, we do not accept liability for any loss or damage, however arising, which results directly or indirectly from use of such information. Nor do we offer any warranty or immunity against patent infringement.

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SEPARATION

Mirafi® RSi - Series Woven Geosynthetics

for Soil Stabilization and Base Course Reinforcement Applications

TenCate develops and produces materials that deliver increased performance, reduce costs and measurable results to provide advanced solutions utilizing patent pending Mirafi® RSi geosynthetics that make a difference.

The Difference Mirafi® RSi-Series Woven Integrated* Geosynthetics Make:

- Modulus. Separation. Confinement. Water flow. Product identification. Superior integration*.
- · Reinforcement Strength. Higher tensile modulus properties than the leading stabilization products.
- · Separation and Filtration. Unique double layer construction provides a wide range of pore sizes for an excellent separation factor, superior filtration and flow characteristics of a fine to coarse sand layer.
- · Soil and Base Course Interaction. Excellent soil and base course confinement resulting in greater load distribution.
- · Durability. Robust damage resistance for moderate to severe stress installations.
- Roll Sizes. Mirafi® RSi-Series geosynthetics come in several roll sizes to fit project requirements.

• Seams. Panels can be seamed in the factory or field, providing cross-roll direction strength to facilitate efficient installation.

APPLICATIONS

When superior performance, flexibility and versatility are necessary, Mirafi® RSi-Series geosynthetics make the difference for varying application needs including: base course reinforcement and subgrade stabilization for road, runway and railway construction; embankment stabilization on soft foundations; reinforcement for mechanically stabilized earth (MSE) structures; liner support, voids bridging, reinforcement over soft hazardous pond closures and other environmental market applications.

INSTALLATION GUIDELINES**

Geosynthetic Placement

Place the geosynthetic directly on prepared surface. It is advisable to leave vegetative cover such as grass and weeds in place to provide a support matting for construction activities. The geosynthetic should be deployed flat and tight with no wrinkles or folds. The rolls should be oriented as shown on plans to ensure the principal strength direction of the material is placed in the correct orientation. Adjacent rolls should be overlapped or seamed as a function of subgrade strength (CBR). Prior to fill placement, Mirafi® RSi-Series geosynthetics should be held in place using suitable means such as pins, soil, staples or sandbags to limit movement during fill placement.



Mirafi® RSi-Series Woven Geosynthetic

Fill Placement

Fill should be placed directly over Mirafi® RSi geosynthetic in 8in (20cm) to 12in (30cm) loose lifts. For very weak subgrades, 18in (45cm) lifts or thicker lifts may be required to stabilize the subgrade, as directed by the engineer. Most rubber-tired vehicles can be driven at slow speeds, less than 10mph (16km/h) and in straight paths over the exposed geosynthetic without causing damage. Sudden braking and sharp turning should be avoided. Tracked construction equipment should not be operated directly upon the geosynthetic. A minimum fill soil thickness of 6in (15cm) is required prior to operation of tracked vehicles over the geosynthetic. Turning of tracked vehicles should be kept to a minimum to prevent tracks from displacing the fill and damaging the geotextile.

** These guidelines serve as a general basis for installation. Detailed instructions are available from your TenCate

Visit www.mirafi.com for a demonstration video

Breakthrough Research: TenCate Mirafi® Geosynthetic Outperforms Others in Independent Full - Scale Study.



Protective & Outdoor Fabrics Aerospace Composites **Armour Composites**

Geosynthetics Industrial Fabrics Synthetic Grass



^{*}Integration refers to the overall set of described characteristics based on a review of technical specifications for comparable products published by their respective manufacturers. Individual characteristics of these products vary and may meet, exceed, or fall below one or more of the above described individual characteristics.

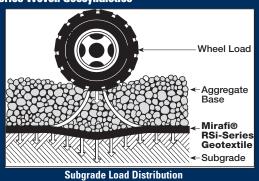


Mirafi® RSi - Series Woven Geosynthetics

for Soil Stabilization and Base Course Reinforcement Applications

Mechanical Properties	Test Method	Unit	RS280i	RS380 <i>i</i>	RS580 <i>i</i>
STRENGTH			(Patent Pending)	(Patent #8,333,22	0 and 8,598,054)
Tensile Modulus @ 2% strain (CD)	ASTM D4595	lbs/ft (kN/m)	30,000 (438)	51,000 (744)	90,000 (1313)
Tensile Modulus @ 5% strain (CD)	ASTM D4595	lbs/ft (kN/m)	32,400 (472)	45,120 (658)	87,600 (1279)
HYDRAULIC					
Flow Rate ¹	ASTM D4491	gal/min/ft ^² (l/min/m²)	70 (2852)	75 (3056)	75 (3056)
Permittivity ¹	ASTM D4491	sec ⁻¹	0.9	0.9	1.0
SOIL RETENTION					
Apparent Opening Size (AOS) ²	ASTM D4751	U.S. Sieve (mm)	40 (0.425)	40 (0.425)	40 (0.425)
Pore Size 050 Pore Size 095	ASTM D6767 ASTM D6767	microns microns	196 ⁴ 345	185 ₄ 365	185 ₄ 350
SOIL INTERACTION					
Interaction Coefficient ³	ASTM D6706		0.89 ⁵	0.89 ⁵	0.95
Factory Seam Strength	ASTM D4884	lbs/ft (kN/m)	2400 (35)	2700 (39.4)	3000 (43.8)
UV Resistance (at 500 hours) ⁵	ASTM D4355	% strength retaine	d 90	90	90
Minimum Roll Value ASTM D4751: AOS is Maximum Opening Diame Interaction Coefficient value is for sand or grav Typical Values Minimum Test Value	eter Value	, and the second	u 30	30	30
Physical Properties Roll Width Roll Length Roll Area		Unit ft (m) ft (m) yd² (m²)	RS280 ; 15 (4.6) 17 (5.2) 300 (91) 500 (418) 567 (474	R\$380 ; 15 (4.6) 17(5.2) 300 (91)) 500 (418) 567 (474)	RS580 <i>i</i> 15 (4.6) 17 (5.2) 300 (91) 500 (418) 567 (474)

Mirafi® RSi-Series Woven Geosynthetics



Mirafi RSi-Series Geotextile Fill Embankment Weak Foundation Soil

Embankments Over Soft Soils

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